PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM FIRE PRE-EMPTION DETECTOR TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 213 (WASHINGTON AVE) AND MD 291 (MORGNEC ROAD) IN KENT COUNTY.

INTERSECTION OPERATION

AN EXISTING CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN AT THIS LOCATION. THE INTERSECTION OPERATES IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. THE LEFT TURN PHASING ALONG NORTHBOUND AND SOUTHBOUND MD 213 OPERATES AS EXCLUSIVE/PERMISSIVE PHASING. THE LEFT TURN PHASING ALONG EASTBOUND AND WESTBOUND MD 291 (MORGNEC ROAD) OPERATES AS EXCLUSIVE/PERMISSIVE PHASING. FIRE PRE-EMPTION PHASING SHALL BE ADDED FOR NORTH AND SOUTHBOUND MD 213. AND ADDED FOR EAST AND WESTBOUND MD 291 (MORGNEC ROAD) APPROACHES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. ROBERT L. KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 810-3240
MR. WM NORRIS EMBERT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 810-3270
MR. BARRY CLOTHIER, DISTRICT UTILITIES ENGINEER PHONE: (410) 810-3275
MR. TERRY O. WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 810-3250
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO. DESCRIPTION

TS QUANTITY

NONE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

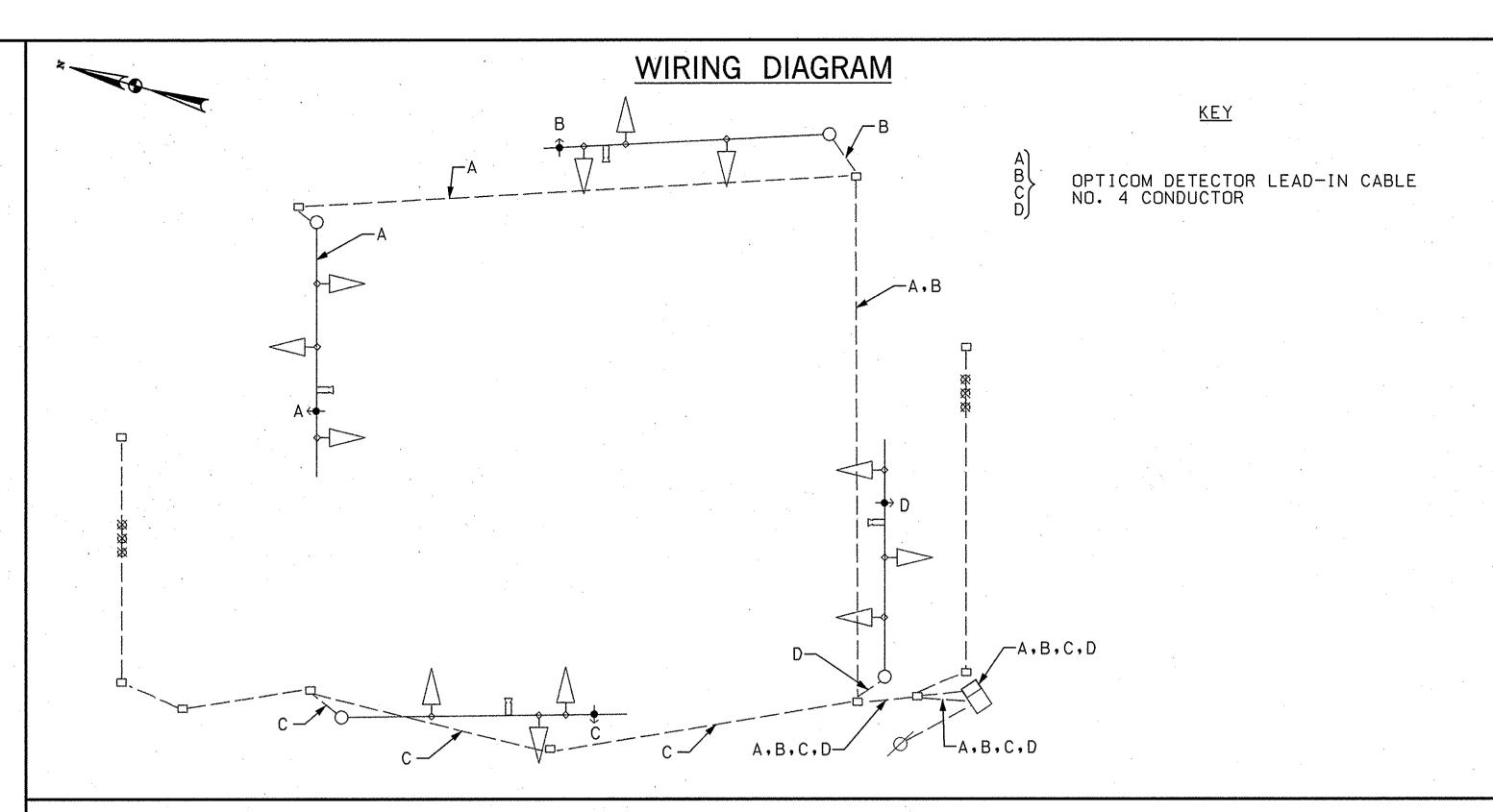
TTEM NO. DESCRIPTION

1001 MAINTENANCE OF TRAFFIC
8059 DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76
8061 OPTICOM NO. 721 DETECTOR EYE
8080 FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE
8021 REM & DISPOSE MAT & EQUIP PER ASSIGN

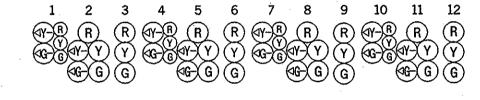
UNITS QUANTITY

EA 1
EA 1
FA 770
EA 1

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASE CHART



PHASE 1 AND 5	4 G ∕R	∢G ∕R	R	4G⁄R	4 -G ∕R	R	Ŕ	R	R	R	R	R	- A
1 AND 5 CHANGE TO 1 AND 6	5, 2 A	ND 5,	OR 2	AND	6					·	1		∀ _т
PHASE 1 AND 6	4-G∕G	4G⁄G	G	R	R	R	R	R	R	R	R	R	\ \ \
1 AND 6 CHANGE	4-Y∕G	4-Y∕G	G	R	R	R	R	R	R	R	R	R	ן ל י
PHASE 2 AND 5	R	R	R	4G∕G	4G⁄G	G	R	R	R	R	R	R	'
2 AND 5 CHANGE	R	R	Ř	ΦY/G	⊹Y∕G	G	R	R	R	R	R	R	
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	
2 AND 6 CHANGE	Υ	Y	Υ	Υ	Υ	Y	R	R	R	R	R	R	→
PHASE 3 AND 7	R	R	R	R	R	R	φG/R	4•G∕R	R	4-G⁄R	4G⁄R	R	7
3 AND 7 CHANGE TO 3 AND	8, 4	AND 7	, OR 4	1 AND	8								1
PHASE 3 AND 8	R	R	R	R	R	Ŕ	R	R	R	4G∕G	 G∕G	G	7
3 AND 8 CHANGE	.R	R	R	R	R	R	R	R	R	4-Y∕G	4-Y∕G	G	٠ Þ _
PHASE 4 AND 7	R	R	R	R	R	R	4-G∕G	4-G∕G	G	R	R	R	_ Δ
4 AND 7 CHANGE	R	R	R	R	R	R	4-Y/G	4-Y∕G	G	R	R	R	7
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	†
4 AND 8 CHANGE	R	R	R	R	R	R	Υ	Υ	Υ	Υ	Υ	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	→ → → →

PRE-EMPTION MD 213	(V-)(R) (G-(S) (G-(S) (G-(S)	R dy-Y 3G-G	(R) (G)	4-R 6-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8	R) 4Y(Y) 4G(G)	(R) (Y) (G)	(Y-B) (G-G) (G-G)	R VY-Y G-G	(R) (Y) (G)	(*************************************	R N-Y 3G-G	(E) S(G)	
-EMPTION SE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	
EMPTION CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	-

1 2 3 4 5 6 7 8 9 10 11 12

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IRE PRE-EMPTION MD 291													
RE-EMPTION HASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	▲ ⊦
RE-EMPTION CLEARANCE HASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	
HASE 4 AND 8 ORMAL OPERATION	R	R	Ŕ	R	R	R	G	G	G	G	G	G	

TOD No: AT355-17 SHA: KE388A51/B51



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 213 AT MD 291 (MORGNEC AVENUE)

CHESTERTOWN, MARYLAND

GENERAL INFORMATION PLAN

SHEET NO. 11 OF 13

 SCALE
 N.T.S.
 DATE
 09/20/05
 CONTRACT NO.
 AT3555185

 DESIGNED BY
 C.FLEMING
 COUNTY
 KENT

 DRAWN BY
 D.BROWN
 LOGMILE
 14021301.32

 CHECKED BY
 S. RENZI
 T.I.M.S. NO.
 G844

 F.A.P. NO.
 TOD NO.
 TOD NO.

DRAWING NO. TS39E - 2 OF 2

SAF

ABRA, WANG & ASSOCIATES, INC 1504 JOH AVENUE SUITE 160 BALTIMORE, MD 21227 (410) 737-6564 WWW.SABRA-WANG.COM